

## Product datasheet for **RR214444**

### Sparcl1 (NM\_012946) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sparcl1 (NM_012946) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sparcl1
Synonyms:	Ecm2; Sc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR214444 representing NM\_012946  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGCCGTGCTTCTCCTCTGTATGCCTTGGGGATCGCTGCTGCAGTCCCGACAACGTTTCTCTCTG  
 ATCATTCCAACCCAACCTCCGCAACACTGCCGACTGGAAGATGCTACAGTCCCCACTGTCCCAGCTGA  
 AGCTGCAGCAGACATAGAAAAGCACCCCAACCATAAGGCTGAAAAACCTTCAGCACTGAACCTCAGAAGAG  
 GAAGCCCATGAACAGTCGACAGAGCAGGACAAAACCTACAGCTTCGAGGTGGACCTGAAGGATGAGGAGG  
 ATGGGGATGGGGATTTAAGTGTAGATCCGACGAAAGAACGCTAGATCTACAGGAAGGGACAAGCGAACC  
 GCAGCAGAAAAGGCTCCCGGAGAACGCCGATTTCCCTGCTACTGTGTCCACTCCCTTTGTGGATTCTGAC  
 CAACCTGCAAATATCACAAGGGGAGAGGAGAGTCAGGAGCAACCTGTAAGTGACTCGCACCAGCAACAGG  
 ACGAGAGCGGCAAGCAGACCCAAGACTCGATGACTGAAGAAAGCCACAAACAAGATCCGGGTATTCCTAA  
 TGAAGAAAAGGAAGAAGGGAAGATCCAGAAGACGTTGGTGCACCCAGTGATAACCAAGAGGAAGAAAAA  
 GAACCACCCGAGGAGCAGCCTACCAGCAAGTGGGAAGGAAACGGAGACCAATCTGAAGACATCTTACAAG  
 AGTCCAGTCAGCCAACCTCAGATAAGCAAGACAAAAGATGATTTCCGAGCAAGGAAGCCAAGGGCAAGAGGG  
 TGAATCTAATGCAGAAGGGGAGGACAAGGCAGCAGGCAGCAAGGAACACCTTCCGCATACGGAGTGGCAG  
 GGCCAAGAAGGGGAGAGCTGGCCTTGACGCTATTGGCAACCGGAAGGACACAGATGAAGAAAAGGCTGTTT  
 CCACGGAACTACCGATGCTGCCGTCGTGCCTAGGAACACCGGAGCCAGTGATAACGGGGGGCGGGATGA  
 CTCTAAGCATGGTGAAGCGATGACTACTTCATCCCCAGCCAGGAATTCCTAGAGGCTGAAAAGATGCAT  
 TCCCTCTCTATTACCTCAAATACGGAGAGGAGACGCCGGACGAGAGCGAGAACCAGGAGGCTGGAG  
 ACAACCAAGGGGCAAGAAAGCTGAGAGCTCACCAAATGCTGAACCGTCCGATGAGGGCAACTCAAGGGG  
 GCACAGTGCTGATTCCTGTCATGAACTTCCAGTGTAAAAGGGGACACACTTGCAAAAACGGATCAACACGGA  
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 CTGACAACCAGACCTACGCCAGCTCCTGTACCTGTTTGTACCAAGTGCATGCTGGAAGGGACCAAAAA  
 GGGACACCAGCTGCAGTTGGATTACTTTGGAGCTTGCAAATCTATTCTGCTTGTACGGACTTCGAAGTG  
 GCTCAGTTTCCGCTGCGGATGAGAGACTGGCTCAAAAACATCCTCATGCAGCTTTACGAACCAACCCCA  
 AACATGGCGGCTACCTAAATGAAAAGCAAAGAAGCAAAGTCAAGAAAATTTACCTGGATGAAAAGAGACT  
 CTTGGCTGGAGACCACCCATTGAATTCTCTTAAGGGACTTCAAGAAAACTACCACATGTATGTGTAT  
 CCTGTGCACTGGCAGTTTAAACGAATTGGATCAGCATCCTGCGGACAGGATCTTGACACATTCTGAACTTG  
 CGCCTCTGCGAGCTTCCCTGGTGCCCATGGAGCACTGCATAACGCGCTTCTTTGAGGAGTGTGACCCCAA  
 CAAGGACAAGCATATCACCTGAAGGAATGGGGCCACTGCTTTGGAATTAAGAAGAAGACATAGATGAA  
 AACCTCTCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214444 representing NM\_012946  
 Red=Cloning site Green=Tags(s)

MKAVLLLLLYALGIAAAVPTTFLSDHSNPTSATLPTLEDATVPTVPAEAAAADIEKHPNHKAEKPSALNSEE  
 EAHEQSTEQDKTYSFEVDLKDEEDGDGLSVDPTERTLDLQEGTSEPQQKRLPENADFPATVSTPFVDS  
 QPANITKGEESEQPVSDSHQQQDESGKQTQDSMTEESHKQDPGIPNEEKEEEEEDPVDGAPSDNQEEEK  
 EPPPEEQPTSKWEGNGDQSEDILQESSQPTQISKTKNDFEQGSQGEEDSNAEGEDKAAGSKEHLPHEWQ  
 GQEGRAGLDAIGNRKDTDEEKAVSTEPTDAAVVPRNHGASDNGGGDDSKHGASDDYFIPSQEFLEARMH  
 SLSYYLYGEEPTDESENRSEAGDNQGAKESSPNAEPSDEGNSRHSADSCMNFQCKRGHTCKTDQHG  
 KPHCVCDPETCPPAKILDQACGTDNQTYASSCHLFATKCMLEGTKKGHQLQLDYFGACKSIPACTDFEV  
 AQFPLMRDWLKNILMQLYEPNPKHGGYLNEKQRSKVKKIYLDKRLLAGDHPIELLLRDFKKNHYMYVY  
 PVHWQFNELDQHPADRILTHSELAPLRASLVPMHCITRFFECDPNKDKHITLKEWGHCFGIKEEDIDE  
 NLLF

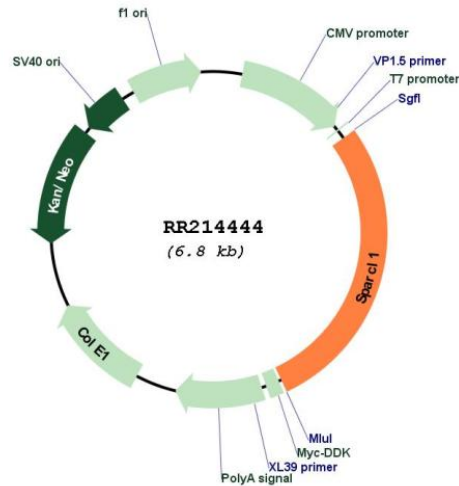
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_012946

**ORF Size:** 1902 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_012946.1](#), [NP\\_037078.1](#)

RefSeq Size: 2676 bp

RefSeq ORF: 1905 bp

Locus ID: 25434

UniProt ID: [P24054](#)

Cytogenetics: 14p22

MW: 70.6 kDa

Gene Summary: putative extracellular matrix glycoprotein that binds calcium and plays an important role in the developing brain [RGD, Feb 2006]